ion-exchange that a pair cation is substituted to a hydrogen atom by adding an inorganic acid such as hydrochloric acid, sulfuric acid and nitric acid. The anionic aliphatic surface active agents include, for example, the followings.

$$R^5$$
- SO_3Na (4)

$$R^{6}$$
— O - C — CH — $SO_{3}Na$
 R^{6} — O - C — CH_{2}
 0
 (6)

$$O$$
 $HC + (CH_2) + C + O + CH_2 + CH_2 + SO_3 + C + CH_2 + CH_3 + C + CH_2 + CH_$

$$R^7$$
— O - C (CH_2) SO_3Na (8)

$$R^5 - O(CH_2)_{2-3}SO_3Na$$
 (9)

$$R^5$$
—O-CH₂CH₂OCH₂CH₂-SO₃Na (10)

$$R^5$$
—S-CH₂CH₂·SO₃Na (11)

wherein R^5 is an alkyl group of 8 to 30 carbon atoms, R^6 is an alkyl group of 4 to 12 carbon atoms, and R^7 is an alkyl group